



Fact Sheet

ESSROC Cement Corporation, Logansport, Indiana

The Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency (U.S. EPA) have prepared this fact sheet to inform the public of the process involved in issuing a Hazardous Waste Management Permit.

The Solid Waste Disposal Act, commonly known as the Resource Conservation and Recovery Act (RCRA) was passed in 1976. This allowed for the regulation of the management of hazardous waste. In the State of Indiana, the IDEM is authorized by the Indiana Environmental Statutes, IC 13-22, to administer the hazardous waste permit program and related hazardous waste management requirements. Any facility which treats, stores, and/or disposes of hazardous waste in the State of Indiana is required to obtain a final hazardous waste management permit. In addition, any hazardous waste facility receiving a permit is required to provide corrective action for all releases of hazardous waste or of hazardous waste constituents from any solid waste management unit on-site.

Because the State of Indiana is not yet authorized by U.S. EPA to administer the Boilers and Industrial Furnaces regulations, the U.S. EPA is issuing the RCRA permit requirements for operations at ESSROC Cement Corporation (ESSROC) which fall under these regulations.

The permit contains both the effective Federal and State permit conditions.

Facility Description

ESSROC operates a hazardous waste storage and treatment facility at Logansport, Indiana. ESSROC stores hazardous waste derived fuel in tanks and containers and then burns that fuel in two rotary cement kilns to facilitate the production of cement.

Draft State Permit Conditions Summary

I. Standard Conditions: These conditions are of a general nature and are required for all facilities that manage hazardous waste under a RCRA permit.

II. General Facility Conditions: These conditions are also general in nature and required for all facilities, but are more specific in determining operating requirements.

III. Corrective Action Conditions: These conditions provide for the investigation and remediation of any releases from a Solid Waste Management Unit (SWMU) or area of concern (AOC). These conditions also require owners and operators to provide information, including sampling, to the IDEM to support whether or not a release has occurred.

IV. Air Emission Standard Conditions: This condition addresses compliance with 40 CFR Part 264, Subpart BB, for air emissions from equipment at hazardous waste facilities.

V. Container Storage Conditions: These conditions include waste identification, container management, secondary

containment, and inspection requirements.

VI. Tank Storage Conditions: These conditions include waste identification, tank location and design, operating requirements, secondary containment, and inspection requirements.

VII. Compliance Schedule Conditions: These conditions specify a compliance schedule leading to compliance with the Indiana Hazardous Waste Rules.

Draft State Permit Attachments

Section 1 - Part A Application: The Part A Application details the facility location, ownership, U.S. EPA identification number, type of business, type and quantity of hazardous waste managed and the hazardous waste management practice of the facility.

Section 2 - Facility Description: This section provides general information on the site and surrounding land.

Section 3 - Waste Analysis Plan: The Waste Analysis Plan describes, in detail, the procedures to be used by the facility to identify the hazardous wastes to be handled on-site. The Plan includes regulatory analytical methods, procedures for physical waste identification, and procedures to ensure the proper acceptance of off-site waste.

Section 4 - Process Description: This section describes, in detail, the management practices the facility will utilize to ensure safe and proper storage of hazardous waste in tanks and containers. It includes tank and container handling procedures and secondary containment requirements.

Section 5 - Contingency Plan: The Contingency Plan describes the actions

facility personnel will take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or water at the facility.

Section 6 – Hazard Prevention: This section contains the security measures and preparedness and prevention procedures to ensure the safety of the workers on-site, as well as to prevent unauthorized access. This section also includes inspection procedures and schedules and is closely related to the Contingency Plan.

Section 7 - Personnel Training: This section describes the training requirements for personnel working with hazardous waste at the facility.

Section 8 - Closure Plan: The Closure Plan describes, in detail, the activities and procedures that will be carried out to ensure that the hazardous waste management units have been closed in accordance with 329 IAC 3.1. This section also describes the hazardous constituents of concern and the clean-up levels.

Section 9 - Corrective Action for Solid Waste Management Units: This section details the facility's obligation to notify the IDEM of SWMUs, and information pertaining to releases from any SWMUs. It also describes current conditions at the facility, and how the facility will investigate each SWMU and AOC for releases of hazardous waste(s) and hazardous constituents(s).

Draft Federal Permit Conditions Summary

Current RCRA Regulatory Status

ESSROC's two cement kilns will be covered under the RCRA Permit. The first part of the permit application was originally submitted for the kilns in March 1994. By submitting the application at that time, ESSROC was allowed to continue its hazardous waste fuel burning operations until the U.S. EPA made a final permit decision. Since that time, ESSROC has operated the cement kilns within the limits imposed by the Interim Status provisions of the rule.

Basis for Decision to Issue the Permit

On October 12 through 18, 1998, ESSROC conducted the trial burn on Cement Kiln #1, with the resulting Trial Burn Reports for the cement kiln submitted to U.S. EPA, Region 5, on March 18, 1999. The Trial Burn Reports indicated that the Destruction and Removal Efficiency was successfully demonstrated to conform with the performance standard of 99.99%. The emission standards for particulate matter and hydro-carbon were also demonstrated during the trial burn. These reports demonstrate that the required performance standards have been met.

This permit will set limits on operation of the cement kilns including the feed rates of each regulated heavy metal, as well as limits on hazardous waste feed, combustion temperature, clink production rate, and other operating parameters. The limits for these regulated substances were derived from air dispersion modeling and health-based standards and from the results of the trial burn. This draft permit includes conditions to ensure that the operation of the cement kilns complies with the U.S. EPA regulations contained in 40 CFR Section 264, Section 266, and Section 270.

In order to verify that the burning of hazardous waste at the plant will not be detrimental to the environment or create a health threat, ESSROC has conducted a detailed risk assessment in accordance with U.S. EPA protocols. The direct and indirect human and ecological risk assessments for the sampled organic compounds, including polychlorinated biphenyls (PCBs), dioxins/furans, chlorine, and metals, were within the acceptable range.

Tentative Decision:

Subject to public notice and comment under 40 CFR Section 124.10, and under the authority of the RCRA as amended by the Hazardous and Solid Waste Amendments of 1984, the U.S. EPA proposes to issue a RCRA Permit to ESSROC for the burning of hazardous waste fuels in its two cement kilns at the Logansport plant. The term of the RCRA Permit would be 5 years from its effective date.

Public Participation

IDEM and the US EPA are providing public participation opportunities to ensure all interested parties have an opportunity to comment on the Draft Permit. The Public Comment Period extends from June 30, 2003, thru August 14, 2003. The official public notice was published on June 30, 2003, in the Pharos-Tribune, Logansport, Indiana. The public notice was also broadcasted over local radio station Hoosier Country/WHZR 103.7.

Public Comments

All comments regarding the State Draft Permit must be postmarked or e-mailed by August 14, 2003, and addressed to:

Ms. Rebecca Joniskan
IDEM
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015, or
rjoniska@dem.state.in.us

All comments regarding the Federal Draft Permit must be postmarked or e-mailed by August 14, 2003, and addressed to:

Mr. Jae Lee
U.S. EPA, Region 5
Indiana Technical Unit
77 West Jackson Street
Chicago, Illinois 60604, or
lee.jae@epa.gov

Public Hearing

Verbal and written comments will also be accepted during the public hearing to be held on August 7, 2003, at 7:00 PM at McHale Performing Arts Center of Logansport Community High School, 1 Berry Lane, Logansport, Indiana.

Copies of Draft Permit

To view a copy of the State Draft Permit, visit the following locations:

IDEM File Room, IGCN Room 1201
100 North Senate Avenue
Indianapolis, IN
8:30 a.m. - 4:30 p.m.

Logansport-Cass County Public Library
616 Broadway
Logansport, Indiana

Copies of the State Draft Permit Conditions and Fact Sheet may be viewed on the IDEM web site at:

www.IN.gov/idem/land/permits/notices/index.html

The administrative record for the Federal Draft Permit is on file at the following location and may be reviewed and copied at any time between 8:00 a.m. and 4:30 p.m., Monday through Friday except for legal holidays:

Waste Management Branch (DW-8J)
U.S. Environmental Protection Agency
77 West Jackson Blvd.
Chicago, Illinois 60604

Copies of the Federal Draft Permit and fact sheet are available at:

Logansport Public Library
616 East Broadway
Logansport, Indiana 46947

For More Information, Contact:

Ms. Rebecca Joniskan, IDEM
317/232-3404 or,
(800) 451-6027, press 0, request ext. 2-3404
rjoniska@dem.state.in.us

or

Mr. Jae Lee, U.S. EPA Region 5
312/886-3781 or Toll Free Number
1-800-621-8431
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